Light efficiency:

89 Lumen/Watt

Light quality:

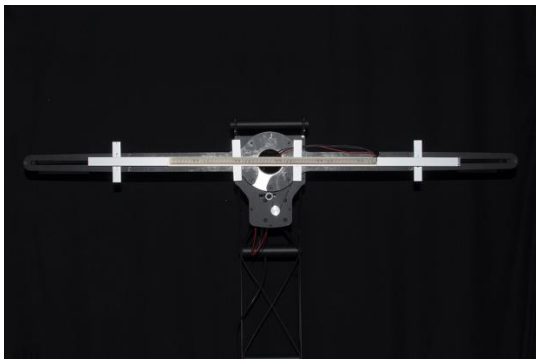
CRI: 92,8

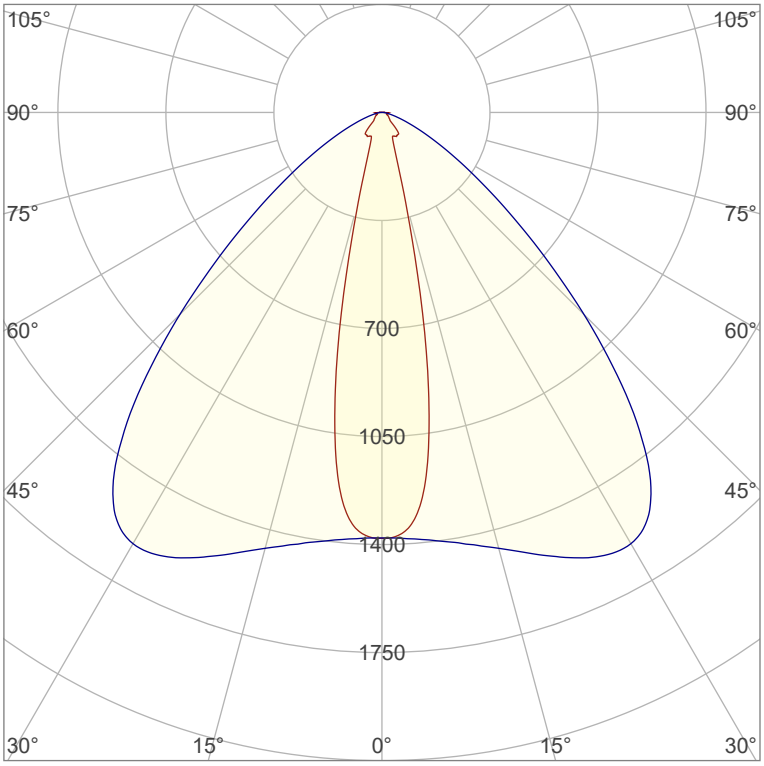
Color temperature:

2700 K

Output: 1026 lm
Peak: 1615 cd

Power: 11,5 W
PF: 1,0





Product name:
Jago-2_510mm_927_Inlay-Lens-30°

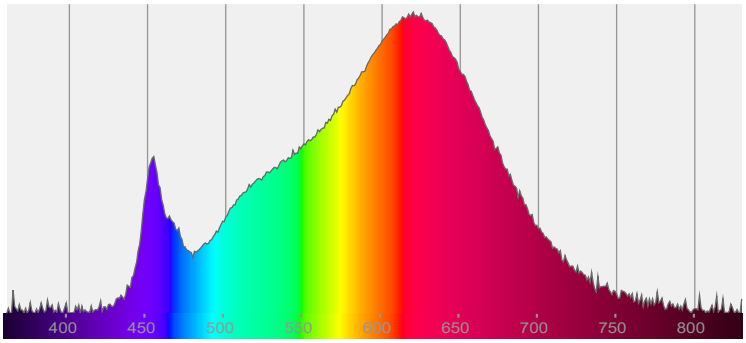
Item number:
NP/L1C/19B/0510/927/IL3F

Date and time:
27.06.2025 08:49:14

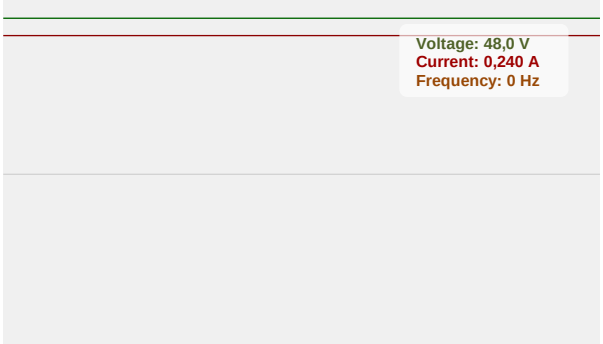
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 07.10.2025
Tester: Peter Ulrich
Test Site: Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

CIE 1931
x: 0,460
y: 0,411

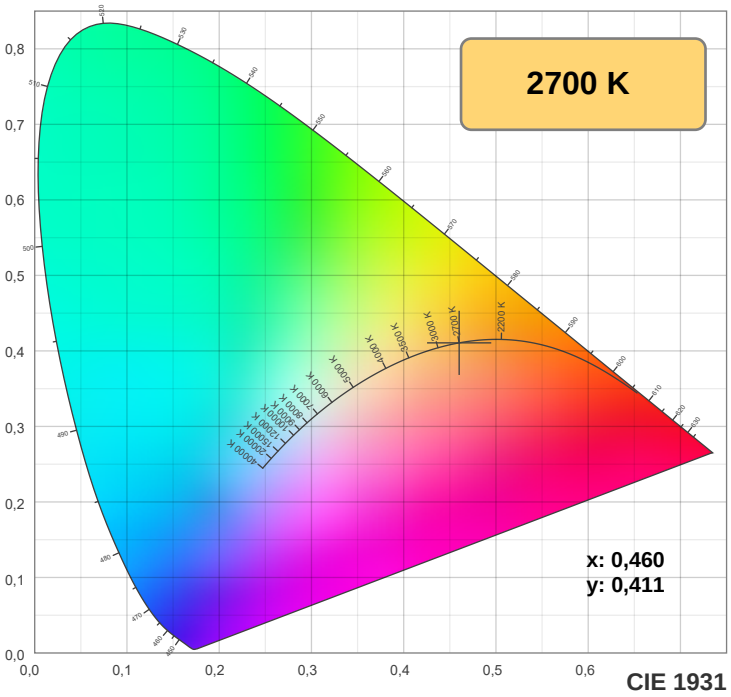
Spectra

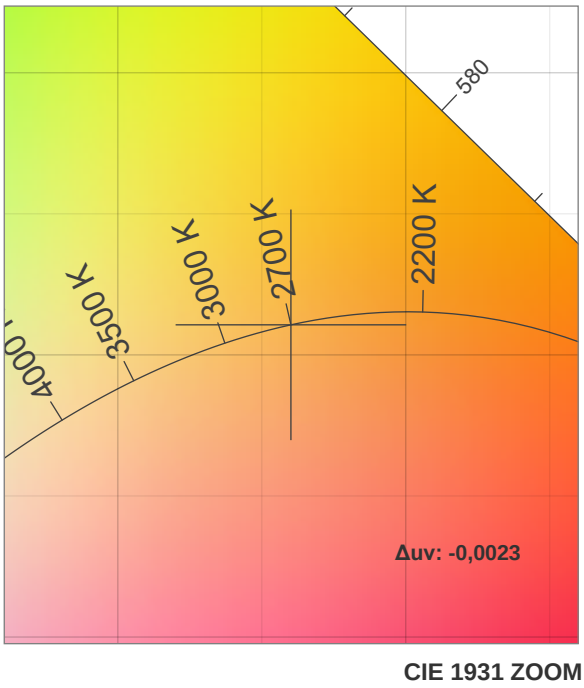


Power

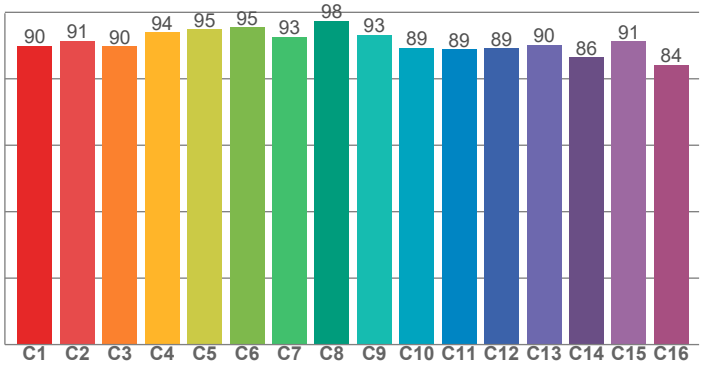


Color details

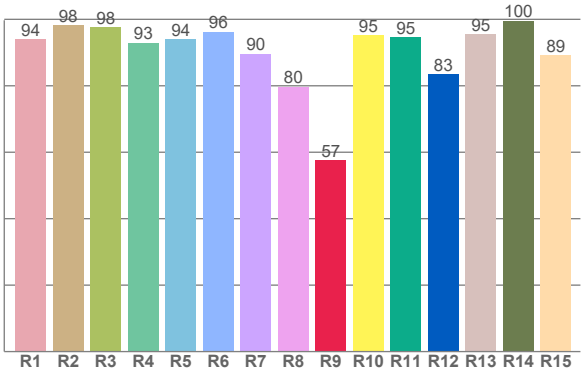




TM30: 91,1



CRI: 92,8 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
93,9	98,2	97,6	92,9	94,1	96,3	89,6	79,7	57,5	95,1	94,6	83,5	95,5	99,6	89,2

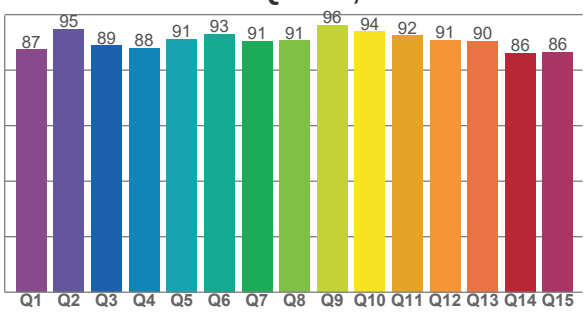
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,9	91,5	89,8	93,9	94,9	95,5	92,6	97,5	93,3	89,3	88,8	89,1	90,2	86,4	91,3	84,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87,5	94,8	88,8	87,9	91,3	93,0	90,6	90,6	96,2	94,0	92,4	90,9	90,4	86,2	86,4

CQS: 90,2



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2700 K	92,8	57,5	91,1	99,2	90,2	0,460	0,411	0,263	0,352	-0,0023

TM30 details

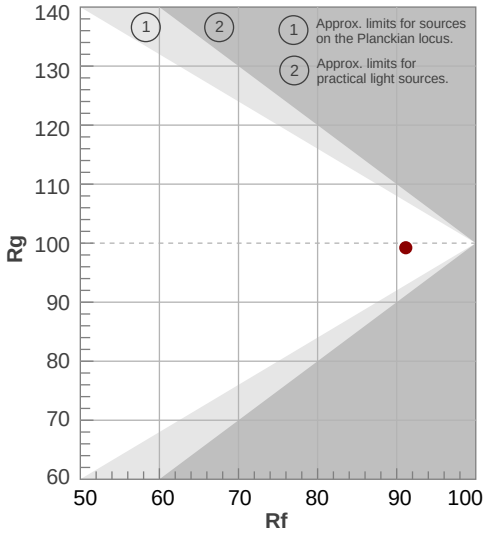
Rf 91,1

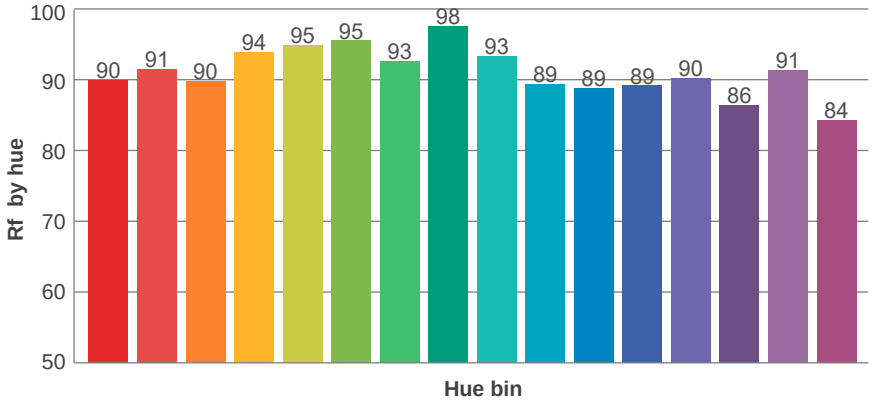
Fidelity index Rf

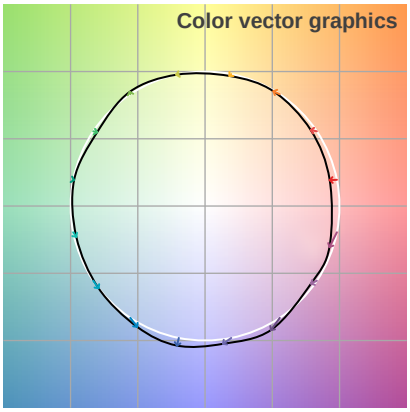
Rg 99,2

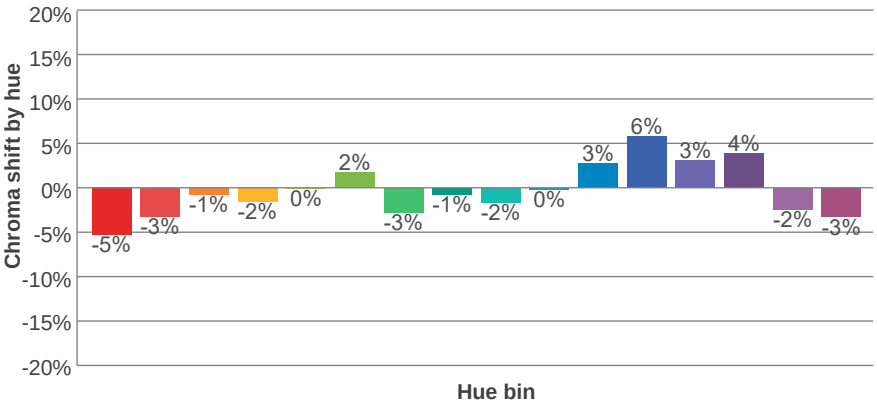
Gammut index Rg

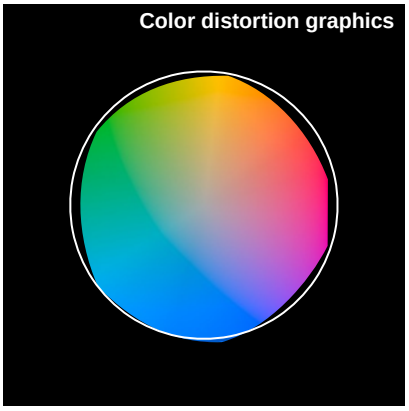
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	90	-5%	1%
2	91	-3%	3%
3	90	-1%	5%
4	94	-2%	1%
5	95	0%	2%
6	95	2%	-1%
7	93	-3%	-1%
8	98	-1%	0%
9	93	-2%	4%
10	89	0%	7%
11	89	3%	8%
12	89	6%	0%
13	90	3%	-7%
14	86	4%	-10%
15	91	-2%	-4%
16	84	-3%	-12%

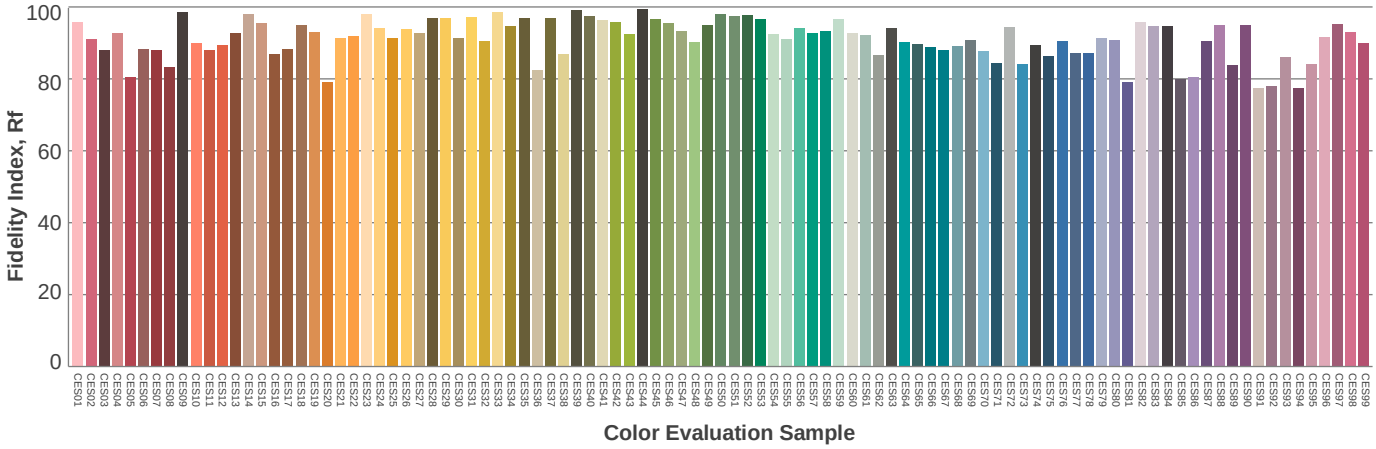




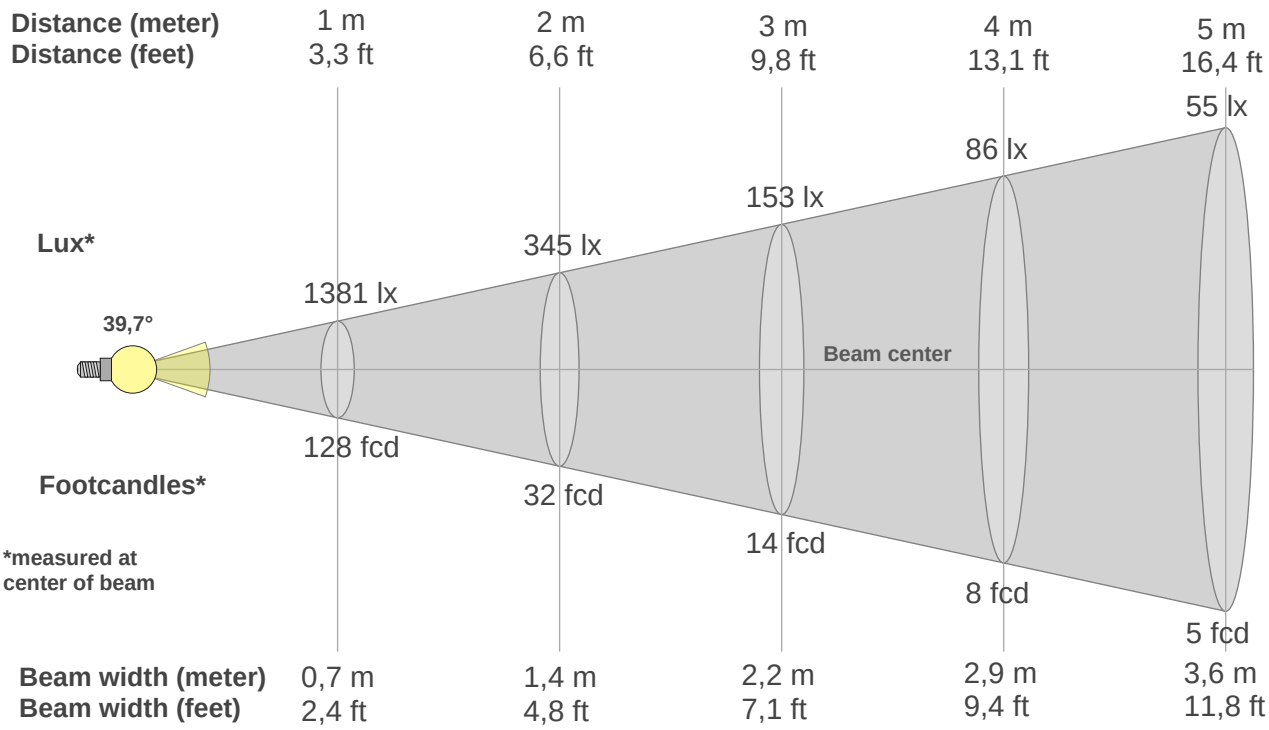








Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	19,7ft	23ft	26,2ft	29,5ft	32,8ft	36,1ft	39,4ft	42,7ft	45,9ft	49,2ft	52,5ft	55,8ft	59,1ft	62,3ft	65,6ft
1381lx	345lx	153lx	86lx	55lx	38lx	28lx	22lx	17lx	14lx	11lx	10lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx
128,3fc	32,1fcd	14,3fcd	8fcd	5,1fcd	3,6fcd	2,6fcd	2fcd	1,6fcd	1,3fcd	1,1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,4fcd	0,3fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1381	1373	1340	1252	1085	853	590	365	224	149	112	93	85	85	87	89	90	89	89	88
100%	99%	97%	91%	79%	62%	43%	26%	16%	11%	8%	7%	6%	6%	6%	6%	7%	6%	6%	6%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1381	1380	1385	1392	1403	1416	1432	1452	1474	1499	1527	1554	1580	1601	1613	1613	1594	1551	1480	1382
100%	100%	100%	101%	102%	103%	104%	105%	107%	109%	111%	113%	114%	116%	117%	117%	115%	112%	107%	100%

Intensities in 180° c-plane

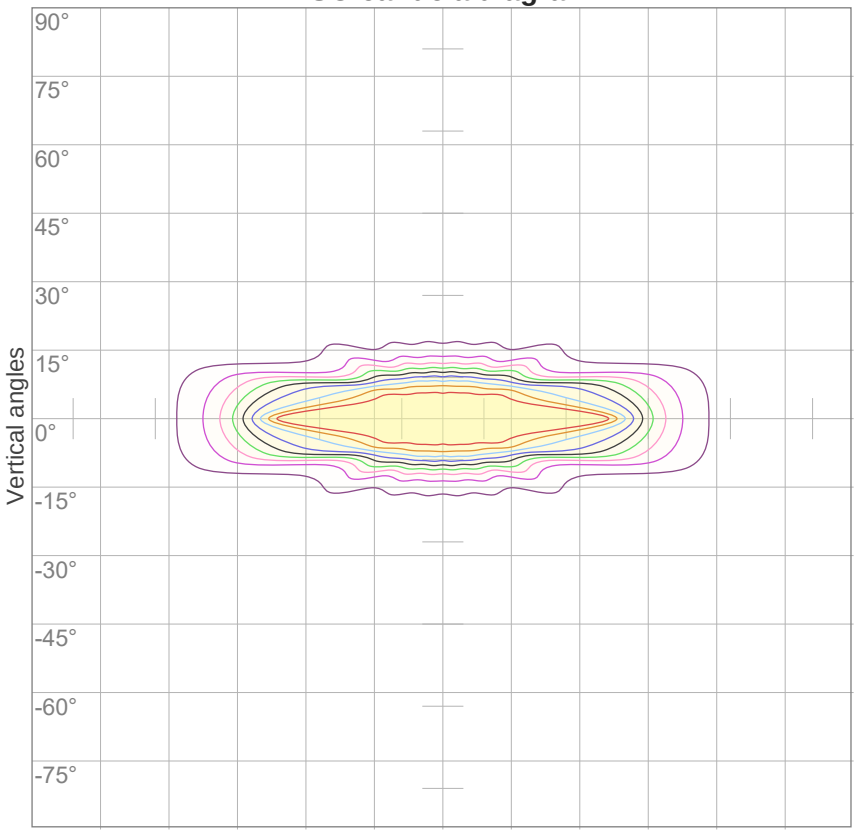
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1381	1373	1340	1252	1085	853	590	365	224	149	112	93	85	85	87	89	90	89	89	88
100%	99%	97%	91%	79%	62%	43%	26%	16%	11%	8%	7%	6%	6%	6%	6%	7%	6%	6%	6%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1381	1380	1385	1392	1403	1416	1432	1452	1474	1499	1527	1554	1580	1601	1613	1613	1594	1551	1480	1382
100%	100%	100%	101%	102%	103%	104%	105%	107%	109%	111%	113%	114%	116%	117%	117%	115%	112%	107%	100%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,7°	**60,6°**	**121,4°**	**89,9%**	**76,2%**

ISO candela diagram



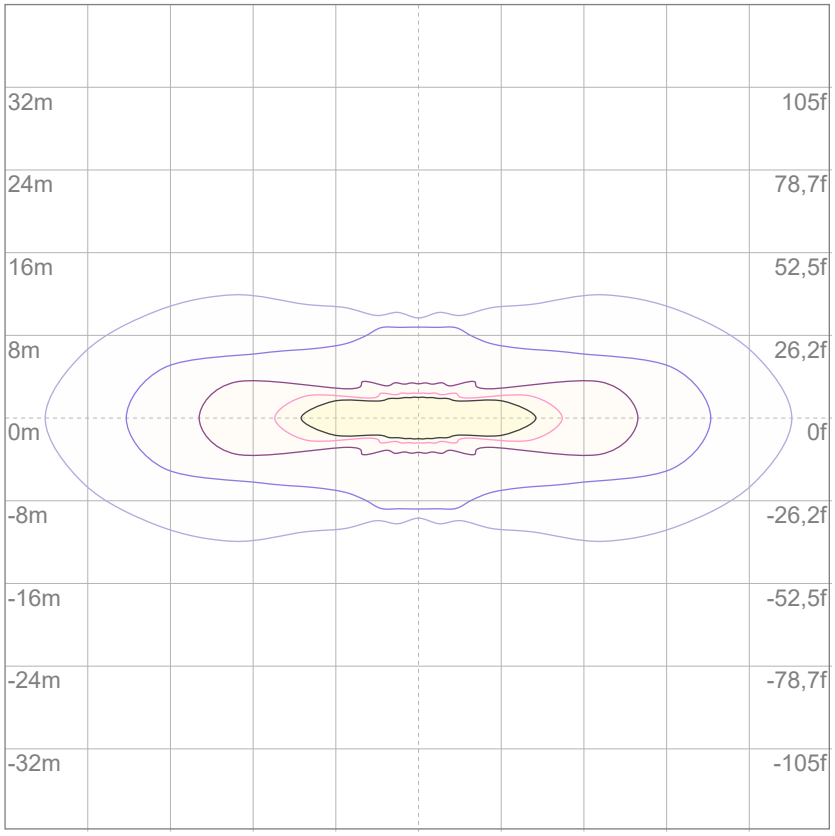
10%	138 cd
20%	276 cd
30%	414 cd
40%	552 cd
50%	690 cd
60%	829 cd
70%	967 cd
80%	1105 cd
90%	1243 cd

Conditions:

Number of c-planes: 16

Candela at center: 1381 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,414 lx
5%	0,690 lx
10%	1,38 lx
30%	4,14 lx
50%	6,90 lx

Conditions:

Number of c-planes: 16

Lux at center: 13,8 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

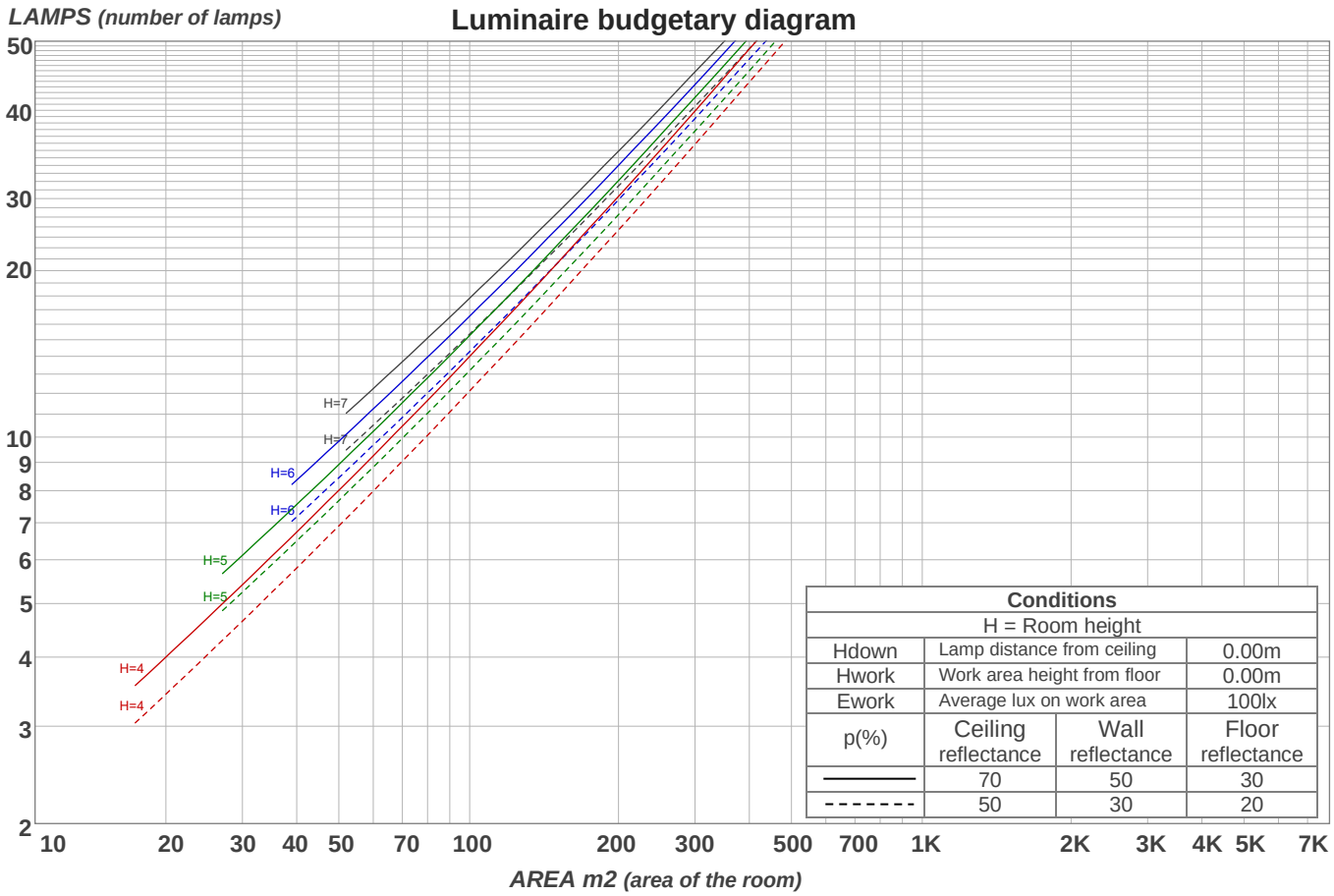
Glare Evaluation According to UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	11,3	12,2	11,5	12,5	12,7	25,4	26,2	25,5	26,5	26,7
	3H	12,2	13,1	12,6	13,4	13,6	25,7	26,6	26,1	26,9	27,0
	4H	12,9	13,8	13,3	14,1	14,3	25,8	26,7	26,2	26,9	27,2
	6H	14,1	14,8	14,4	15,1	15,5	25,9	26,7	26,2	27,0	27,3
	8H	14,7	15,5	15,0	15,8	16,2	25,9	26,7	26,2	27,0	27,4
	12H	15,4	16,1	15,7	16,4	16,9	25,9	26,6	26,2	27,0	27,4
4H	2H	12,5	13,4	12,9	13,7	13,9	25,0	26,0	25,4	26,2	26,5
	3H	13,7	14,4	14,0	14,8	15,2	25,6	26,3	25,9	26,6	27,1
	4H	14,4	15,1	14,8	15,5	16,0	25,6	26,3	26,1	26,8	27,3
	6H	15,5	16,2	16,0	16,6	16,9	25,8	26,4	26,3	26,8	27,1
	8H	16,2	16,9	16,7	17,2	17,6	25,8	26,4	26,3	26,8	27,1
	12H	17,0	17,5	17,5	17,9	18,4	25,8	26,3	26,3	26,7	27,2
8H	4H	15,2	15,8	15,7	16,2	16,5	25,6	26,2	26,1	26,5	26,9
	6H	16,5	17,0	17,0	17,4	18,0	25,7	26,2	26,2	26,6	27,2
	8H	17,4	17,8	17,9	18,3	18,9	25,8	26,2	26,3	26,7	27,4
	12H	18,3	18,6	18,9	19,1	19,7	25,9	26,2	26,5	26,7	27,3
12H	4H	15,3	15,8	15,8	16,3	16,7	25,5	26,0	26,0	26,4	26,9
	6H	16,8	17,2	17,3	17,7	18,4	25,7	26,1	26,2	26,6	27,3
	8H	17,7	18,0	18,3	18,5	19,2	25,8	26,1	26,4	26,6	27,2
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,2 / -0,2					2,2 / -2,7				
S = 1.5H		0,3 / -0,2					4,2 / -3,9				
S = 2.0H		0,5 / -0,5					5,9 / -4,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1026 lm total luminous flux											

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)				Room Values are expressed as percentage of Lumens delivered to the task surface													
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	91	90	88
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	81	74	70	78	73	68	76	71	67	74	70	67	65
5	86	76	69	64	84	75	68	63	73	67	62	71	66	62	69	64	61	59
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	64	60	56	55
7	76	66	59	54	75	65	58	54	63	57	53	62	57	53	61	56	52	51
8	72	61	55	50	71	61	54	50	59	54	49	58	53	49	57	52	49	47
9	69	58	51	47	67	57	51	46	56	50	46	55	50	46	54	49	46	44
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	51	46	43	42

Luminaire budgetary diagram

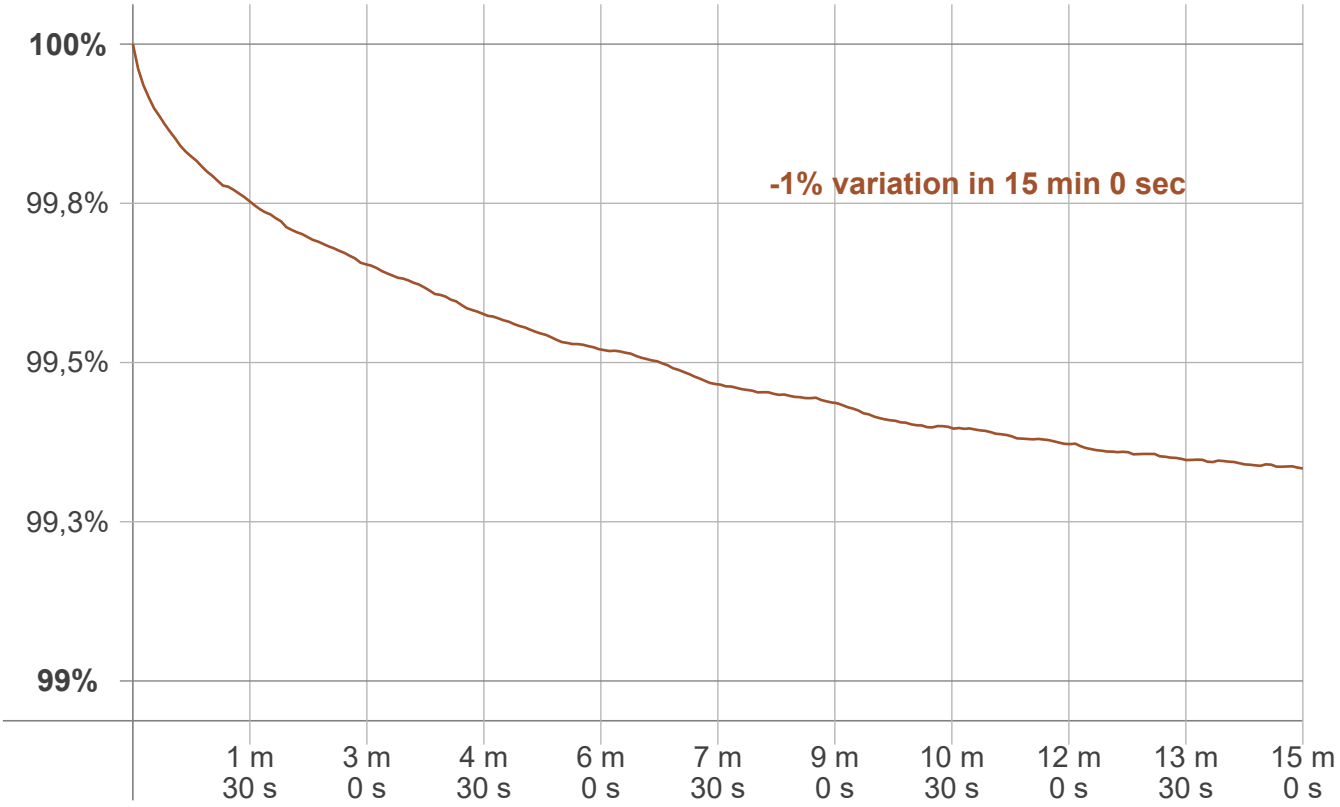


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
123 lm	221 lm	187 lm	175 lm	135 lm	81,2 lm	45,7 lm	26,3 lm	16,4 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
6,19 lm	1,94 lm	1,82 lm	1,64 lm	1,29 lm	0,954 lm	0,703 lm	0,430 lm	0,145 lm

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 15 min 0 sec**
Warmup variation	**-1,0%**

Warmup conditions

Stable period:	**15 min**
Stable change max:	**2,0%**
Minimum time:	**15 min**

Color temperature change

CCT start	CCT change	CCT end
2703 K	-3 K	2700 K

Output change

Output start	Output change	Output end
1034 lm	-8 lm	1026 lm